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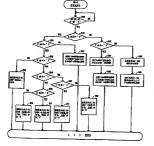


(51) 国際特許分類7 (11) 国際公開番号 WO00/58845 G06F 13/38, H04L 25/38 A1 (43) 国際公開日 2000年10月5日(05.10.00) (21) 国際出願番号 PCT/JP00/02097 (81) 指定国 CN, US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE) (22) 国際出願日 2000年3月31日(31.03.00) 添付公開書類 (30) 優先権データ 国際調査報告書 特願平11/94369 1999年3月31日(31.03.99) л (71) 出願人(米国を除くすべての指定国について) コピア株式会社(COPYER CO., LTD.)[JP/JP] 〒181-8520 東京都三鷹市下連雀6丁目3番3号 Tokyo, (JP) (72) 発明者;および (75) 発明者/出願人(米国についてのみ) 福田道隆(FUKUDA, Michitaka)[JP/JP] 〒481-8520 東京都三鷹市下連雀6丁目3番3号 コピア株式会社内 Tokyo, (JP) (74) 代理人 平田昌男(HANDA, Masao)

(S4)Title: METHOD OF SYNCHRONOUS SERIAL COMMUNICATION AND SYSTEM FOR SYNCHRONOUS SERIAL COMMUNICATION

(54)発明の名称 同期式シリアル通信方法及び同期式シリアル通信システム

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\$40...START DATA BIT = "1" \$53...HWERT DATA IN SPECIFIED BLOCK \$56...SHIET DATA IN SPECIFIED BLOCK TO LEFT, 158 = "0"

SST...SHIFT DATA IN SPECIFIED BLOCK TO LEFT. LSS = "1"
S61...SHIFT DATA IN SPECIFIED BLOCK TO RIGHT. MSS = "1"

\$42...REFER TO PREVIOUS BLOCK INFORMATION AND STORE DATA FOR ASSOCIATED BLOCKS IN SEQUENCE \$44...STORE DATA ASCOT MMETHER TO WRITE INDIVIDUAL BLOCKS

S45...RETER TO ABOVE BLOCK INFORMATION AND STORE DATA FOR ASSOCIATED BLOCKS IN SEQUENCE

542...SHIFT DATA IN SPECIFIED BLOCK TO RIGHT. MSB = "0" 546...STORK ALL INPOT DATA IN SEQUENCE

\$47...STORE DATA ASSUMING THAT ALL BLOCKS ARE WRITTEN \$41...BIT 2 = "1"

\$43...BIT 3 - "1" \$52...BIT 4 - "1" \$54...BIT 5 - "1" \$55...BIT 6 - "1" B60...BIT 6 - "1"

(57) Abstract

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A method of synchronous serial communications and a system for synchronous serial communications are provided for increasing the transfer rate of serial data. In full mode, ordinary synchronous serial communications are carried out. In block mode, serial data of a predetermined length to be transmitted is divided into a plurality of blocks, block information about which block is to go first is transmitted, and the data in the block designated by the block information is then transmitted. In burst mode, the next block information is compared with the previously sent block information, and the coincidence of the two allows the data of the block to be transmitted with block information omitted. Mode identification information indicative of the current transmission mode accompanies data to be transmitted.

ABSTRACT

This invention provides a method for synchronous serial communication and a system for synchronous serial communication capable of increasing the speed of the transmission of serial data. The full mode is a mode under which the conventional synchronous serial communication is achieved. The block mode is a mode which is introduced if transmission of serial data having a specific length is required, and under which data to be transmitted are divided into plural blocks, and firstly transmitted is block information that notifies which blocks out of the entire blocks will be transmitted, and then transmitted are the data included in the blocks notified by the block information. The burst mode is a mode under which the block information which is currently transmitted is compared with the block information which was previously transmitted, and, if the two are the same, transmission of the data is introduced, while the block information being omitted. The system attaches mode information notifying the mode through which data will be transmitted, to the data to be transmitted.